Fowlkes4D.ST25.txt
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<110> FOWLKES, Dana M.
       KAY, Brian K.
       FRELINGER, Jeffrey A.
       HYDE-DERUYSCHER, Robin P

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<141> 2003-09-08

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<151> 1998-03-31

<150> PCT/US97/19638
<151> 1997-10-31

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<223> MDM2-binding peptide from library

<400> 44

Pro Phe His Ser Trp Trp Gln Asp Leu Thr Asp
1   5   10

<210> 45
<211> 11
<212> PRT
<213> Artificial

<220>
<223> MDM2-binding peptide from library

<400> 45

Asn Phe Trp Asp Glu Trp Gln Thr Phe Met Asp
1   5   10

<210> 46
<211> 11
<212> PRT
<213> Artificial

<220>
<223> MDM2-binding peptide from library

<400> 46

Ser Phe Thr Asp Tyr Trp Arg Asp Leu Glu Gln
1   5   10

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<210>  47
<211>  11
<212>  PRT
<213>  Artificial

<220>
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<220>
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<223>  Xaa can be any naturally occurring amino acid

<220>
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<223>  Xaa can be any naturally occurring amino acid

<220>
<221>  misc_feature
<222>  (10)..(11)
<223>  Xaa can be any naturally occurring amino acid

<400>  47

Xaa Phe Xaa Asp Tyr Trp Gln Asp Leu Xaa Xaa
1               5                   10


<210>  48
<211>  32
<212>  PRT
<213>  Artificial

<220>
<223>  fragment of human p53

<400>  48

Met Glu Glu Pro Gln Ser Asp Pro Ser Val Glu Pro Pro Leu Ser Gln
1               5                   10                  15


Glu Thr Phe Ser Asp Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu
            20              25                  30


<210>  49
<211>  36
<212>  PRT
<213>  Artificial

<220>
<223>  fragment of mouse p53

<400>  49

Met Thr Ala Met Glu Glu Ser Gln Ser Asp Ile Ser Leu Glu Leu Pro
1               5                   10                  15


Leu Ser Gln Glu Thr Phe Ser Gly Leu Trp Lys Leu Leu Pro Pro Glu
            20                  25                  30


Asn Asp Ile Leu
            35
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<210> 50
<211> 11
<212> PRT
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<220>
<223> MDM2-binding peptide from library

<400> 50

Gly Ala Pro Trp Asn Trp Glu Lys Lys Glu Leu
1   5   10

<210> 51
<211> 11
<212> PRT
<213> Artificial

<220>
<223> MDM2-binding peptide from library

<400> 51

Ala Asp Pro Arg Leu Pro Val Glu Arg Glu Leu
1   5   10

<210> 52
<211> 12
<212> PRT
<213> Artificial

<220>
<223> MDM2-binding peptide from library

<400> 52

Met Asp Gly Ser Gly Gly Glu Arg Asn Ser Met Trp
1   5   10

<210> 53
<211> 12
<212> PRT
<213> Artificial

<220>
<223> MDM2-binding peptide from library

<400> 53

Pro Met Arg Thr Glu Trp Ala Val Gly Ser Glu Ser
1   5   10

<210> 54
<211> 15
<212> PRT
<213> Artificial

<220>
<223> ProRS-binding peptide from library

<400> 54

Ser Arg Val Cys Ala Ile Trp Pro Asp Leu Asp Gly Cys Ser Arg
1   5   10   15

<210>   55
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   ProRS-binding peptide from library

<400>   55

Ser Arg Trp Cys Ser Leu Arg Pro Gln Asp Glu Gly Cys Ser Arg
1   5   10   15

<210>   56
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   ProRS-binding peptide from library

<400>   56

Ser Arg Trp Cys Glu Leu Trp Pro Glu Gly Ser Gly Cys Ser Arg
1   5   10   15

<210>   57
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   ProRS-binding peptide from library

<400>   57

Ser Arg Trp Cys Glu Leu Trp Pro Glu Gly Ser Gly Cys Ser Arg
1   5   10   15

<210>   58
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   ProRS-binding peptide from library

<400>   58

Ser Arg Leu Cys Glu Val Trp Pro Gln Thr Ala Gly Cys Ser Arg
1   5   10   15

<210>   59
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   ProRS-binding peptide from library

<400> 59

Ser Arg Trp Cys Asp Ile Trp Pro Asp Thr Gly Ser Cys Ser Arg
1   5   10   15

<210> 60
<211> 15
<212> PRT
<213> Artificial

<220>
<223> ProRS-binding peptide from library

<400> 60

Ser Arg Leu Cys Asp Ile Met Pro Gln Thr Val Gly Cys Ser Arg
1   5   10   15

<210> 61
<211> 15
<212> PRT
<213> Artificial

<220>
<223> ProRS-binding peptide from library

<400> 61

Ser Arg Trp Cys Glu Val Trp Pro Asp Lys Arg Trp Cys Ser Arg
1   5   10   15

<210> 62
<211> 15
<212> PRT
<213> Artificial

<220>
<223> consensus for ProRS binding

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<222> (5)..(5)
<223> Xaa is any acidic amino acid

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa is any hydrophobic amino acid

<220>
<221> misc_feature
<222> (9)..(9)
<223> Xaa is any hydrophobic amino acid

<220>
<221> misc_feature
<222> (10)..(11)
<223> Xaa can be any naturally occurring amino acid

<400> 62

Ser Arg Trp Cys Xaa Xaa Trp Pro Xaa Xaa Xaa Gly Cys Ser Arg
1   5   10   15

<210> 63
<211> 45
<212> DNA
<213> Artificial

<220>
<223> DNA encoding ProRS-binding peptide from library

<220>
<221> CDS
<222> (1)..(45)

<400> 63
tcg agg gtg tgt gct att tgg ccg gat ctg gat ggt tgc tct aga   45
Ser Arg Val Cys Ala Ile Trp Pro Asp Leu Asp Gly Cys Ser Arg
1   5   10   15

<210> 64
<211> 15
<212> PRT
<213> Artificial

<220>
<223> DNA encoding ProRS-binding peptide from library

<400> 64

Ser Arg Val Cys Ala Ile Trp Pro Asp Leu Asp Gly Cys Ser Arg
1   5   10   15

<210> 65
<211> 45
<212> DNA
<213> Artificial

<220>
<223> DNA encoding ProRS-binding peptide from library

<220>
<221> CDS
<222> (1)..(45)

<400> 65
tcg agg tgg tgt gag ttg tgg ccg gag ggt tct ggt tgt tct aga   45
Ser Arg Trp Cys Glu Leu Trp Pro Glu Gly Ser Gly Cys Ser Arg
1   5   10   15

<210> 66
<211> 15
<212> PRT
<213> Artificial

<220>
<223> DNA encoding ProRS-binding peptide from library

<400> 66

Ser Arg Trp Cys Glu Leu Trp Pro Glu Gly Ser Gly Cys Ser Arg
1   5   10   15

<210> 67

<211>   12
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   67

Leu Tyr Ser Trp Pro Asp Glu Gln Tyr Glu Arg Pro
1   5   10

<210>   68
<211>   11
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   68

Phe Gly Phe Tyr Gly Trp Pro Asp Asp Gln Tyr
1   5   10

<210>   69
<211>   12
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   69

Met Tyr Thr Trp Pro Gly Ser Pro Tyr Leu Gln Met
1   5   10

<210>   70
<211>   12
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   70

Met Tyr Ser Trp Pro Gly Glu His Tyr Thr Val His
1   5   10

<210>   71
<211>   12
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   71

Met Tyr Ala Trp Pro Asp Ser Ser Glu Leu Glu Lys
1   5   10

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<210>  72
<211>  7
<212>  PRT
<213>  Artificial

<220>
<223>  TyrRS-binding peptide from library

<400>  72

Met Tyr Ser Trp Pro Gly Val
1               5


<210>  73
<211>  7
<212>  PRT
<213>  Artificial

<220>
<223>  TyrRS-binding peptide from library

<400>  73

Tyr Tyr Gly Trp Pro Ser Glu
1               5


<210>  74
<211>  11
<212>  PRT
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<220>
<223>  TyrRS-binding peptide from library

<400>  74

Asp Arg Val Tyr Gly Trp Pro Pro Phe Glu Glu
1               5                   10


<210>  75
<211>  11
<212>  PRT
<213>  Artificial

<220>
<223>  TyrRS-binding peptide from library

<400>  75

Ala Tyr His Trp Pro Trp Val Glu Ser Glu Trp
1               5                   10


<210>  76
<211>  13
<212>  PRT
<213>  Artificial

<220>
<223>  TyrRS-binding peptide from library

<400>  76

Gly Tyr Ser Trp Pro Trp Pro Asp Asp Asn Ala Ser Arg
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1   5   10

<210>   77
<211>   11
<212>   PRT
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<220>
<223>   TyrRS-binding peptide from library

<400>   77

Ile Tyr Ser Trp Pro Trp Pro Ser Asn Glu Asn
1   5   10

<210>   78
<211>   7
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   78

Gln Tyr Thr Trp Pro Trp Pro
1   5

<210>   79
<211>   10
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   79

Tyr Ser Trp Pro Trp Asp Phe Asn Glu Thr
1   5   10

<210>   80
<211>   11
<212>   PRT
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<220>
<223>   TyrRS-binding peptide from library

<400>   80

Ala Tyr Ser Trp Pro Trp His Asp Thr Val Asp
1   5   10

<210>   81
<211>   11
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   81

Trp Asp Gly Phe Ala Trp Pro Met His Gln Thr
1   5   10

<210>   82
<211>   11
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   82

Trp Pro Trp Gly Gly Phe Glu Trp Pro Lys Leu
1   5   10

<210>   83
<211>   11
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   83

Arg Tyr Trp Trp Pro Asp Trp Gly Ser Arg Glu
1   5   10

<210>   84
<211>   11
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   84

Leu Trp Trp Pro Glu Trp Gly Val Tyr Thr Gly
1   5   10

<210>   85
<211>   10
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400>   85

Tyr Phe Trp Trp Pro Asp Trp Gly Ser Ala
1   5   10

<210>   86
<211>   13
<212>   PRT
<213>   Artificial

<220>
<223>   TyrRS-binding peptide from library

<400> 86

Asp Arg Gly Trp Trp Trp Pro Ser Trp Gly Val Ser Arg
1   5   10

<210> 87
<211> 11
<212> PRT
<213> Artificial

<220>
<223> TyrRS-binding peptide from library

<400> 87

Gly Tyr Trp Trp Pro Asp Trp Gly Ser Gly Gln
1   5   10

<210> 88
<211> 11
<212> PRT
<213> Artificial

<220>
<223> TyrRS-binding peptide from library

<400> 88

Ala Glu Tyr Trp Trp Pro Asp Trp Gly Phe Phe
1   5   10

<210> 89
<211> 11
<212> PRT
<213> Artificial

<220>
<223> TyrRS-binding peptide from library

<400> 89

Arg Leu Gln Tyr Trp Trp Pro Asp Trp Gly Pro
1   5   10

<210> 90
<211> 11
<212> PRT
<213> Artificial

<220>
<223> TyrRS-binding peptide from library

<400> 90

Met Tyr Trp Trp Pro Asn Trp Gly Ser Gln Glu
1   5   10

<210> 91
<211> 11
<212> PRT
<213> Artificial

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<220>
<223>  TyrRS-binding peptide from library

<400>  91

Trp Leu Asp Gly Leu Pro Leu Tyr His Glu Val
1               5                   10


<210>  92
<211>  12
<212>  PRT
<213>  Artificial

<220>
<223>  TyrRS-binding peptide from library

<400>  92

Asp Thr Val Arg Lys Asp Leu Leu Leu Glu Arg Glu
1               5                   10


<210>  93
<211>  4
<212>  PRT
<213>  Artificial

<220>
<223>  TyrRS-bindng motif


<220>
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<222>  (2)..(2)
<223>  Xaa can be any naturally occurring amino acid

<400>  93

Tyr Xaa Trp Pro
1


<210>  94
<211>  7
<212>  PRT
<213>  Artificial

<220>
<223>  extended TyrRS-binding motif

<400>  94

Tyr Trp Trp Pro Asp Trp Gly
1               5


<210>  95
<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  beta-glucosidase binding peptide from library

<400>  95

Ser Ser Gln Thr Asp Trp Arg Lys Ile Phe Gln Ser Leu Ser Arg
```

1   5   10   15

<210> 96
<211> 15
<212> PRT
<213> Artificial

<220>
<223> beta-glucosidase binding peptide from library

<400> 96

Ser Ser Ser Thr Asp Trp Leu Asn Val Trp Arg Gln Leu Ser Arg
1   5   10   15

<210> 97
<211> 15
<212> PRT
<213> Artificial

<220>
<223> beta-glucosidase binding peptide from library

<400> 97

Ser Ser Ala Thr Asp Trp Gly Arg Val Tyr Ser Ile Leu Ser Arg
1   5   10   15

<210> 98
<211> 15
<212> PRT
<213> Artificial

<220>
<223> beta-glucosidase binding peptide from library

<400> 98

Ser Ser Ala Ser Tyr Ala Pro Trp Pro Ile Tyr Phe Ala Ser Arg
1   5   10   15

<210> 99
<211> 15
<212> PRT
<213> Artificial

<220>
<223> beta-glucosidase binding peptide from library

<400> 99

Ser Ser Gly Ala Phe Lys Pro Trp Pro Val Tyr Ser Phe Ser Arg
1   5   10   15

<210> 100
<211> 15
<212> PRT
<213> Artificial

<220>
<223> beta-glucosidase binding peptide from library

<400> 100

```
Ser Arg Gln Val Glu Val Phe Lys Pro Trp Pro Val Tyr Ser Arg
1               5                   10                  15
```

<210> 101
<211> 15
<212> PRT
<213> Artificial

<220>
<223> beta-glucosidase binding peptide from library

<400> 101

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Ser Ser Ser Phe Lys Pro Trp Pro Ile Tyr Leu Gly Ser Ser Arg
1               5                   10                  15
```

<210> 102
<211> 15
<212> PRT
<213> Artificial

<220>
<223> beta-glucosidase binding peptide from library

<400> 102

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Ser Ser Glu Pro Phe Ser Val Trp Pro Ile Tyr Lys His Ser Arg
1               5                   10                  15
```

<210> 103
<211> 15
<212> PRT
<213> Artificial

<220>
<223> beta-glucosidase binding peptide from library

<400> 103

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Ser Ser Ser Val Pro Phe Ala Pro Trp Pro Val Tyr Ala Ser Arg
1               5                   10                  15
```

<210> 104
<211> 15
<212> PRT
<213> Artificial

<220>
<223> beta-glucosidase binding peptide from library

<400> 104

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Ser Ser Thr Ser Leu Pro Phe Asn Arg Trp Pro Ile Tyr Ser Arg
1               5                   10                  15
```

<210> 105
<211> 15
<212> PRT
<213> Artificial

<220>
<223> carboxypeptidase binding peptide from library

<400> 105

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Ser Arg Leu Leu Glu Val Ser Pro Gly Trp Trp Gln Met Ser Arg
1               5                   10                  15
```

<210> 106
<211> 15
<212> PRT
<213> Artificial

<220>
<223> carboxypeptidase binding peptide from library

<400> 106

```
Ser Ser Phe Arg Glu Leu Lys Pro Gly Trp Trp Ser Tyr Ser Arg
1               5                   10                  15
```

<210> 107
<211> 15
<212> PRT
<213> Artificial

<220>
<223> carboxypeptidase binding peptide from library

<400> 107

```
Ser Ser Trp Gly Asp Tyr Phe Asn Trp Arg Asp Gly Leu Ser Arg
1               5                   10                  15
```

<210> 108
<211> 15
<212> PRT
<213> Artificial

<220>
<223> alcohol dehydrogenase binding peptide from library

<400> 108

```
Ser Arg Gln Val Glu Val Phe Lys Pro Trp Pro Val Tyr Ser Arg
1               5                   10                  15
```

<210> 109
<211> 15
<212> PRT
<213> Artificial

<220>
<223> alcohol dehydrogenase binding peptide from library

<400> 109

```
Ser Ser Ser Phe Lys Pro Trp Pro Ile Tyr Leu Gly Ser Ser Arg
1               5                   10                  15
```

<210> 110
<211> 12
<212> PRT
<213> Artificial

<220>
<223>   alcohol dehydrogenase binding peptide from library

<400>   110

Ser Val Ser Val Gly Met Lys Pro Ser Pro Arg Pro
1   5   10

<210>   111
<211>   16
<212>   PRT
<213>   Artificial

<220>
<223>   alcohol dehydrogenase binding peptide from library

<400>   111

Ser Ser Asn Tyr Trp Trp Gln Ser Pro Val Leu Ser Arg His Ser Arg
1   5   10   15

<210>   112
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   alcohol dehydrogenase binding peptide from library

<400>   112

Ser Ser Trp Gln Gly Asn Val Leu Leu Gly Asn Trp Ile Ser Arg
1   5   10   15

<210>   113
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   alcohol dehydrogenase binding peptide from library

<400>   113

Ser Ser Leu Leu Asn Glu Ser Arg Leu Gln Trp Ser Thr Ser Arg
1   5   10   15

<210>   114
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   biotinylated ProRS-binding peptide from library

<400>   114

Ser Arg Asp Trp Gly Phe Trp Asp Trp Gly Val Asp Arg Ser Arg
1   5   10   15

<210>   115
<211>   16
<212>   PRT

<213> Artificial

<220>
<223> biotinylated ProRS-binding peptide from library

<400> 115

Ser Arg Asp Trp Gly Phe Trp Arg Leu Pro Glu Ser Met Ala Ser Arg
1   5   10   15

<210> 116
<211> 15
<212> PRT
<213> Artificial

<220>
<223> biotinylated ProRS-binding peptide from library

<400> 116

Ser Arg Glu Trp His Phe Trp Arg Asp Tyr Asn Pro Thr Ser Arg
1   5   10   15

<210> 117
<211> 15
<212> PRT
<213> Artificial

<220>
<223> biotinylated ProRS-binding peptide from library

<400> 117

Ser Ser Glu Arg Gly Ser Gly Asp Arg Gly Glu Lys Gly Ser Arg
1   5   10   15

<210> 118
<211> 77
<212> PRT
<213> Artificial

<220>
<223> fragment of NGF receptor

<400> 118

Leu Asn Gly Ser Ala Gly Asp Thr Trp Arg His Leu Ala Gly Glu Leu
1   5   10   15

Gly Tyr Gln Pro Glu His Ile Asp Ser Phe Thr His Glu Ala Cys Pro
            20   25   30

Val Arg Ala Leu Leu Ala Ser Trp Ala Thr Gln Asp Ser Ala Thr Leu
        35   40   45

Asp Ala Leu Leu Ala Ala Leu Arg Arg Ile Gln Arg Ala Asp Leu Val
    50   55   60

Glu Ser Leu Cys Ser Glu Ser Thr Ala Thr Ser Pro Val
65   70   75

<210> 119
<211> 84
<212> PRT
<213> Artificial

<220>
<223> fragment of Fas receptor

<400> 119

Ala Gly Val Met Thr Leu Ser Gln Val Lys Gly Phe Val Arg Lys Asn
1   5   10   15

Gly Val Asn Glu Ala Lys Ile Asp Glu Ile Lys Asn Asp Asn Val Gln
            20   25   30

Asp Thr Ala Glu Gln Lys Val Gln Leu Leu Arg Asn Trp His Gln Leu
        35   40   45

His Gly Lys Lys Glu Ala Tyr Asp Thr Leu Ile Lys Asp Leu Lys Lys
    50   55   60

Ala Asn Leu Cys Thr Leu Ala Glu Lys Ile Gln Thr Ile Ile Leu Lys
65   70   75   80

Asp Ile Thr Ser

<210> 120
<211> 84
<212> PRT
<213> Artificial

<220>
<223> fragment of TNF receptor

<400> 120

Thr Asp Asp Pro Ala Thr Leu Tyr Trp Lys Glu Phe Val Arg Arg Leu
1   5   10   15

Gly Leu Ser Asp His Glu Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg
            20   25   30

Cys Leu Arg Glu Ala Gln Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg
        35   40   45

Thr Arg Arg Glu Ala Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp
    50   55   60

Met Asp Leu Leu Gly Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Ala
65   70   75   80

Pro Pro Leu Pro

<210> 121
<211> 5
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding motif

<220>
<221> misc_feature
<222> (2)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 121

Leu Xaa Xaa Leu Leu
1   5

<210> 122
<211> 15
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 122

Ser Arg Thr Trp Glu Ser Pro Leu Gly Thr Trp Glu Trp Ser Arg
1   5   10   15

<210> 123
<211> 15
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 123

Ser Ser Lys Tyr Ser Tyr Ser Arg Ser Ser Glu Gly His Ser Arg
1   5   10   15

<210> 124
<211> 15
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 124

Ser Ser Trp Val Arg Leu Ser Asp Phe Pro Trp Gly Val Ser Arg
1   5   10   15

<210> 125
<211> 15
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 125

Ser Ser Trp Asp Arg Leu Ser Asp Phe Pro Trp Gly Val Ser Arg
1   5   10   15

<210> 126
<211> 15
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 126

Ser Ser Trp Ile Arg Leu Arg Asp Leu Pro Trp Gly Glu Ser Arg
1   5   10   15

<210> 127
<211> 14
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 127

Ser Ser Trp Val Leu Leu Arg Asp Leu Pro Trp Gly Ser Arg
1   5   10

<210> 128
<211> 15
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 128

Ser Ser Cys Lys Trp Tyr Glu Lys Cys Ser Gly Leu Trp Ser Arg
1   5   10   15

<210> 129
<211> 15
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 129

Ser Ser Gly Ile Cys Phe Phe Trp Asp Gly Cys Phe Glu Ser Arg
1   5   10   15

<210> 130
<211> 15
<212> PRT

<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 130

Ser Arg Asn Leu Cys Phe Phe Trp Asp Asp Glu Tyr Cys Ser Arg
1   5   10   15

<210> 131
<211> 14
<212> PRT
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<220>
<223> estrogen receptor binding peptide from library

<400> 131

His His His Arg His Pro Ala His Pro His Thr Tyr Gly Gly
1   5   10

<210> 132
<211> 15
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 132

Ser Arg Ala Gly Leu Leu Ser Asp Leu Leu Glu Gly Lys Ser Arg
1   5   10   15

<210> 133
<211> 15
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 133

Ser Ser Arg Ser Leu Leu Arg Asp Leu Leu Met Val Asp Ser Arg
1   5   10   15

<210> 134
<211> 15
<212> PRT
<213> Artificial

<220>
<223> estrogen receptor binding peptide from library

<400> 134

Ser Ser Asn Lys Leu Leu Tyr Asn Leu Leu Lys Met Glu Ser Arg
1   5   10   15

<210> 135

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<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  estrogen receptor binding peptide from library

<400>  135

Ser Ser Lys Ser Leu Leu Leu Asn Leu Leu Ser Thr Pro Ser Arg
1               5                   10                  15


<210>  136
<211>  16
<212>  PRT
<213>  Artificial

<220>
<223>  estrogen receptor binding peptide from library

<400>  136

His Ser Phe Pro Pro Glu Ser Leu Leu Val Arg Leu Leu Gln Gly Gly
1               5                   10                  15


<210>  137
<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  estrogen receptor binding peptide from library

<400>  137

Ser Arg Leu Glu Met Leu Leu Arg Ser Glu Thr Asp Phe Ser Arg
1               5                   10                  15


<210>  138
<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  estrogen receptor binding peptide from library

<400>  138

Ser Arg Leu Glu Glu Leu Leu Lys Trp Gly Ser Val Thr Ser Arg
1               5                   10                  15


<210>  139
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<212>  PRT
<213>  Artificial

<220>
<223>  estrogen receptor binding peptide from library

<400>  139

Ser Arg Leu Glu Gln Leu Leu Lys Glu Glu Phe Ser Tyr Ser Arg
1               5                   10                  15
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<210>   140
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   estrogen receptor binding peptide from library

<400>   140

Ser Arg Leu Glu Gln Leu Leu Arg Ser Glu Pro Asp Phe Ser Arg
1               5                   10                  15


<210>   141
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   estrogen receptor binding peptide from library

<400>   141

Ser Arg Leu Glu Asp Leu Leu Arg Ala Pro Phe Thr Thr Ser Arg
1               5                   10                  15


<210>   142
<211>   15
<212>   PRT
<213>   Artificial

<220>
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<400>   142

Ser Arg Leu Glu Ser Leu Leu Arg Phe Gly Gln Leu Asp Ser Arg
1               5                   10                  15


<210>   143
<211>   15
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<213>   Artificial

<220>
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<400>   143

Ser Ser Arg Leu Leu Ser Leu Leu Val Gly Asp Phe Asn Ser Arg
1               5                   10                  15


<210>   144
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<213>   Artificial

<220>
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<400>   144

Ser Arg Leu Glu Glu Leu Leu Leu Gly Thr Asn Arg Asp Ser Arg
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1   5   10   15

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<220>
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<400>   145

Ser Arg Leu Lys Glu Leu Leu Leu Leu Pro Thr Asp Leu Ser Arg
1   5   10   15

<210>   146
<211>   16
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<220>
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<400>   146

Ser Arg Leu Glu Cys Leu Leu Glu Gly Arg Leu Asn Glu Cys Ser Arg
1   5   10   15

<210>   147
<211>   15
<212>   PRT
<213>   Artificial

<220>
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<400>   147

Ser Ser Lys Leu Tyr Cys Leu Leu Asp Glu Ser Tyr Cys Ser Arg
1   5   10   15

<210>   148
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<220>
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<400>   148

Ser Arg Leu Ser Cys Leu Leu Met Gly Phe Glu Asp Cys Ser Arg
1   5   10   15

<210>   149
<211>   16
<212>   PRT
<213>   Artificial

<220>
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<400>   149

Ser Ser Lys Leu Ile Arg Leu Leu Thr Ser Asp Glu Glu Leu Ser Arg
1   5   10   15

<210> 150
<211> 16
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<220>
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<400> 150

Ser Ser Arg Leu Met Glu Leu Leu Gln Glu Gly Gln Gly Trp Ser Arg
1   5   10   15

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<220>
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<400> 151

Ser Ser Asn His Gln Ser Ser Arg Leu Ile Glu Leu Leu Ser Arg
1   5   10   15

<210> 152
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<220>
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<400> 152

Ser Ser Arg Leu Trp Gln Leu Leu Ala Ser Thr Asp Thr Ser Arg
1   5   10   15

<210> 153
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<220>
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<400> 153

Ser Ser Asn Ser Met Leu Trp Lys Leu Leu Ala Ala Pro Ser Arg
1   5   10   15

<210> 154
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<220>
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<400> 154

Ser Ser Lys Thr Leu Trp Arg Leu Leu Glu Gly Glu Arg Ser Arg
1   5   10   15

<210> 155
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<220>
<223> estrogen receptor binding peptide from library

<400> 155

Ser Arg Ala Gly Pro Val Leu Trp Gly Leu Leu Ser Glu Ser Arg
1   5   10   15

<210> 156
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<220>
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<400> 156

Ser Ser Leu Thr Ser Arg Asp Phe Gly Ser Trp Tyr Ala Ser Arg
1   5   10   15

<210> 157
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<220>
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Ser Ser Trp Val Arg Leu Ser Asp Phe Pro Trp Gly Val Ser Arg
1   5   10   15

<210> 158
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<220>
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<400> 158

Ser Ser Glu Tyr Cys Phe Tyr Trp Asp Ser Ala His Cys Ser Arg
1   5   10   15

<210> 159
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<220>
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<400> 159

Ser Arg Ser Leu Leu Glu Cys His Leu Met Gly Asn Cys Ser Arg
1   5   10   15

<210> 160
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<220>
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<400> 160

Ser Ser Glu Leu Leu Arg Trp His Leu Thr Arg Asp Thr Ser Arg
1   5   10   15

<210> 161
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<400> 161

Ser Arg Leu Glu Tyr Trp Leu Lys Trp Glu Pro Gly Pro Ser Arg
1   5   10   15

<210> 162
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<220>
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<400> 162

Ser Arg Ser Asp Ser Ile Leu Trp Arg Met Leu Ser Glu Ser Arg
1   5   10   15

<210> 163
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<220>
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<400> 163

Ser Ser Lys Gly Val Leu Trp Arg Met Leu Ala Glu Pro Val Ser Arg
1   5   10   15

<210> 164
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<220>
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<400> 164

His Ser His Gly Pro Leu Thr Leu Asn Leu Leu Arg Ser Ser Gly Gly
1   5   10   15

<210> 165
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<220>
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<400> 165

Ser Ser Ala Gly Gly Gly Ala Pro Ala Gly Ser Thr Pro Ser Arg
1   5   10   15

<210> 166
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<220>
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<400> 166

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1   5   10   15

<210> 167
<211> 15
<212> PRT
<213> Artificial

<220>
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<400> 167

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1   5   10   15

<210> 168
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<212> PRT
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<220>
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<220>
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<223> Xaa is Glu, Asp, Asn or Gln

<220>

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<222>  (2)..(2)
<223>  Xaa is His, Arg or Lys

<220>
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<222>  (3)..(3)
<223>  Xaa is Val, Leu, Ile or Met

<220>
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<222>  (5)..(5)
<223>  Xaa is Ser, Thr, Ala or Gly

<220>
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<222>  (10)..(10)
<223>  Xaa is Arg, Lys or His

<400>  168

Xaa Xaa Xaa Cys Xaa Trp Gly Trp Gly Xaa Cys
1               5                   10


<210>  169
<211>  8
<212>  PRT
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<220>
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<223>  Xaa is a hydrophobic amino acid

<220>
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<222>  (6)..(6)
<223>  Xaa is Phe or Leu

<220>
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<223>  Xaa can be any naturally occurring amino acid

<400>  169

Trp Xaa Cys Xaa Gly Xaa Xaa Cys
1               5


<210>  170
<211>  6
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<220>
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<223>  Xaa is Val or Ile

<400>  170

Trp Thr Cys Xaa Asn Cys
1               5


<210>  171
<211>  11
<212>  PRT
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<220>
<223>  consensus sequence for human MDM2 binding peptide

<400>  171

Ser Phe Thr Asp Tyr Trp Arg Asp Leu Glu Gln
1               5                   10


<210>  172
<211>  7
<212>  PRT
<213>  Artificial

<220>
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<220>
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<223>  Xaa is Tyr, Phe, Trp or Leu

<220>
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<222>  (5)..(5)
<223>  Xaa is Asp, Glu, Ser or Asn

<400>  172

Xaa Trp Trp Pro Xaa Trp Gly
1               5


<210>  173
<211>  7
<212>  PRT
<213>  Artificial

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<223>  These amino acids are optional

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<223> Xaa is Ile or Val

<400> 173

Phe Lys Pro Trp Pro Xaa Tyr
1   5

<210> 174
<211> 7
<212> PRT
<213> Artificial

<220>
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<400> 174

Ser Arg Asx Trp Gly Phe Trp
1   5

<210> 175
<211> 10
<212> PRT
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<220>
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<220>
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<220>
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<223> Xaa is any hydrophobic amino acid

<400> 175

Trp Xaa Arg Leu Xaa Asp Xaa Pro Trp Gly
1   5   10

<210> 176
<211> 5
<212> PRT
<213> Artificial

<220>
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<400> 176

Cys Phe Phe Trp Asp
1   5

<210> 177
<211> 5

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<220>
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<220>
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<223>  Xaa can be any naturally occurring amino acid

<400>  177

Leu Xaa Xaa Leu Leu
1               5


<210>  178
<211>  8
<212>  PRT
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<220>
<223>  consensus sequence for target binding peptide

<400>  178

Asp Leu Tyr Asp Asp Asp Asp Lys
1               5


<210>  179
<211>  5
<212>  PRT
<213>  Artificial

<220>
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<220>
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<223>  Xaa is any hydrophilic amino acid

<400>  179

Tyr Xaa Trp Pro Trp
1               5


<210>  180
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<212>  PRT
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<220>
<223>  Carboxypeptidase-binding peptide consensus

<400>  180

Pro Gly Trp Trp
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